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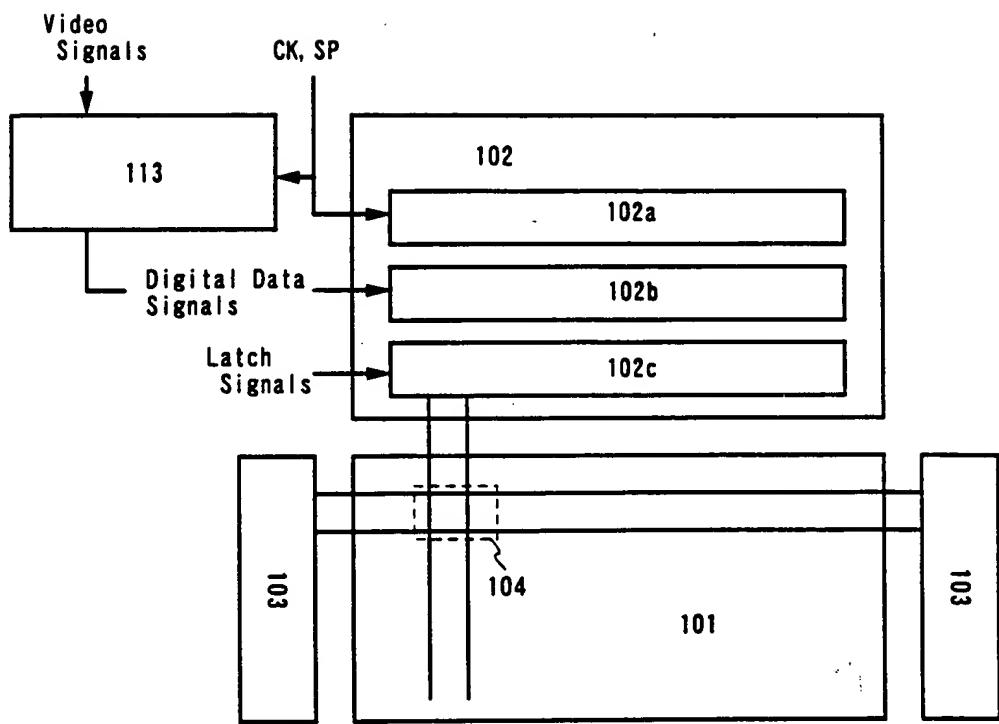


Fig. 1A

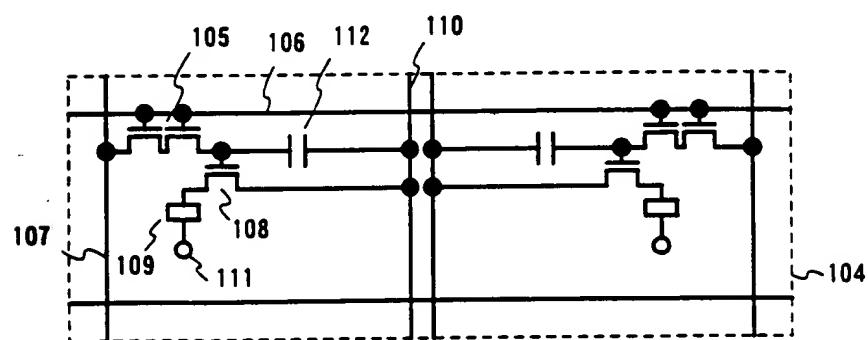


Fig. 1B

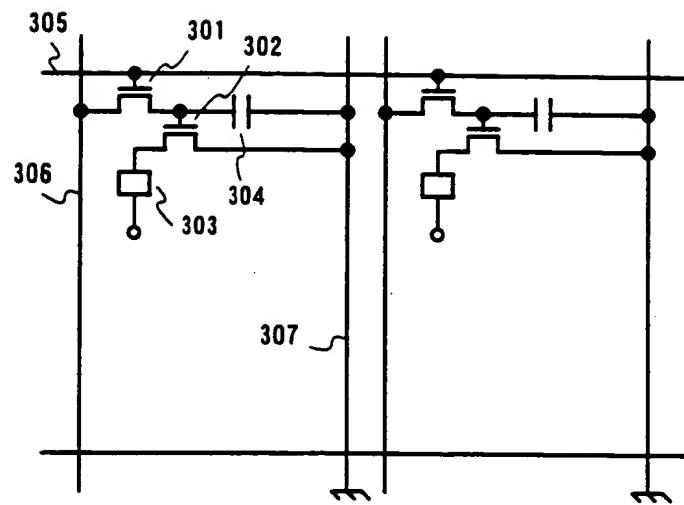


Fig. 3

Fig. 4A

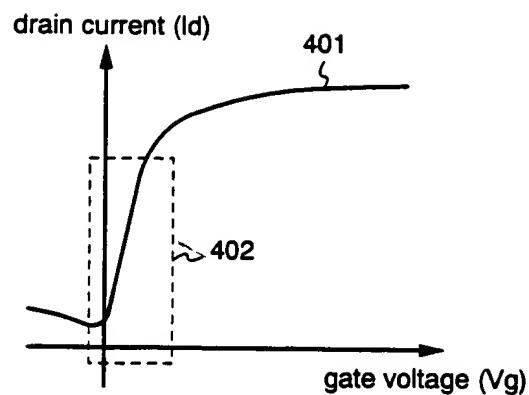
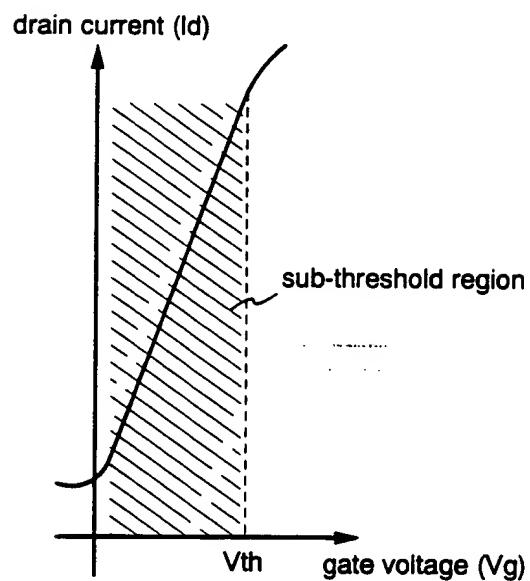


Fig. 4B



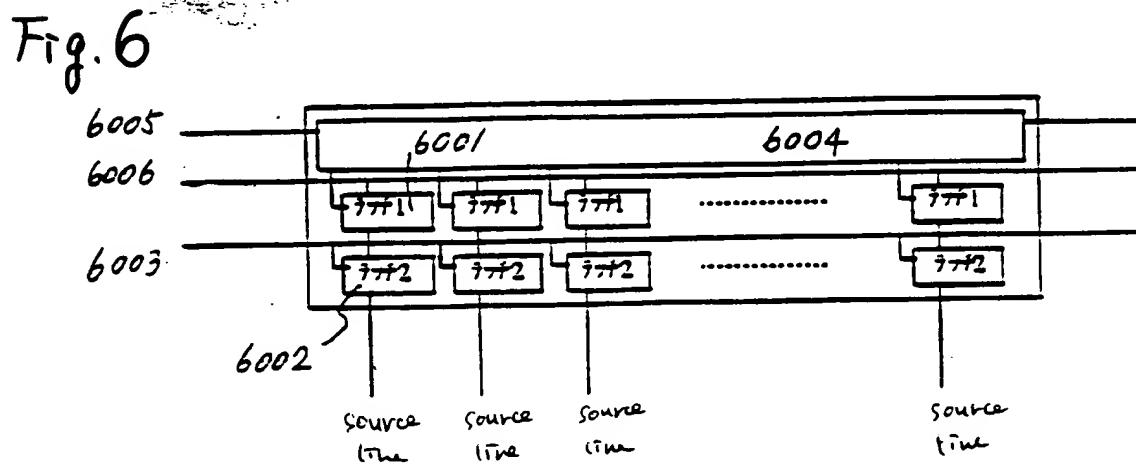
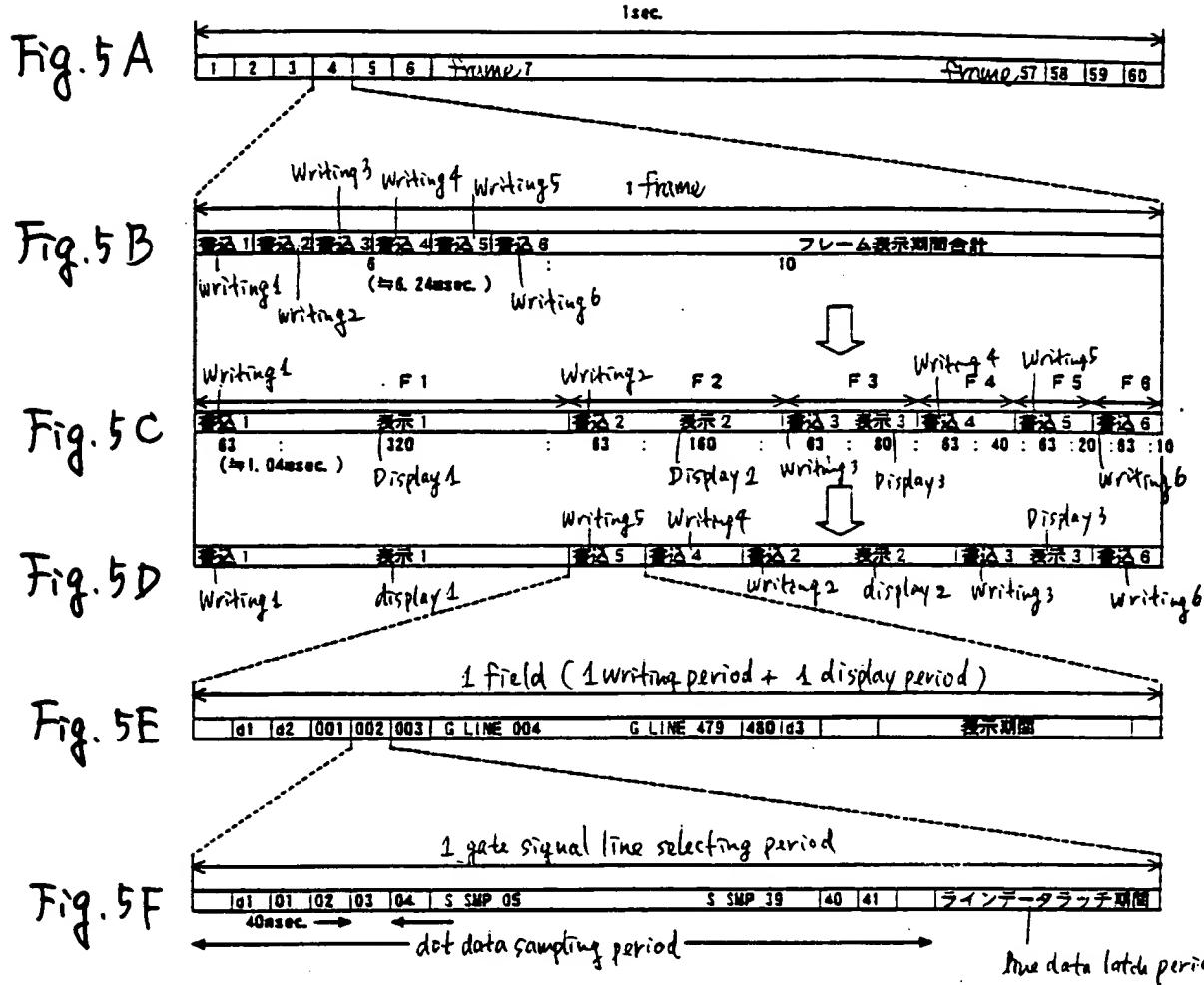


Fig. 7

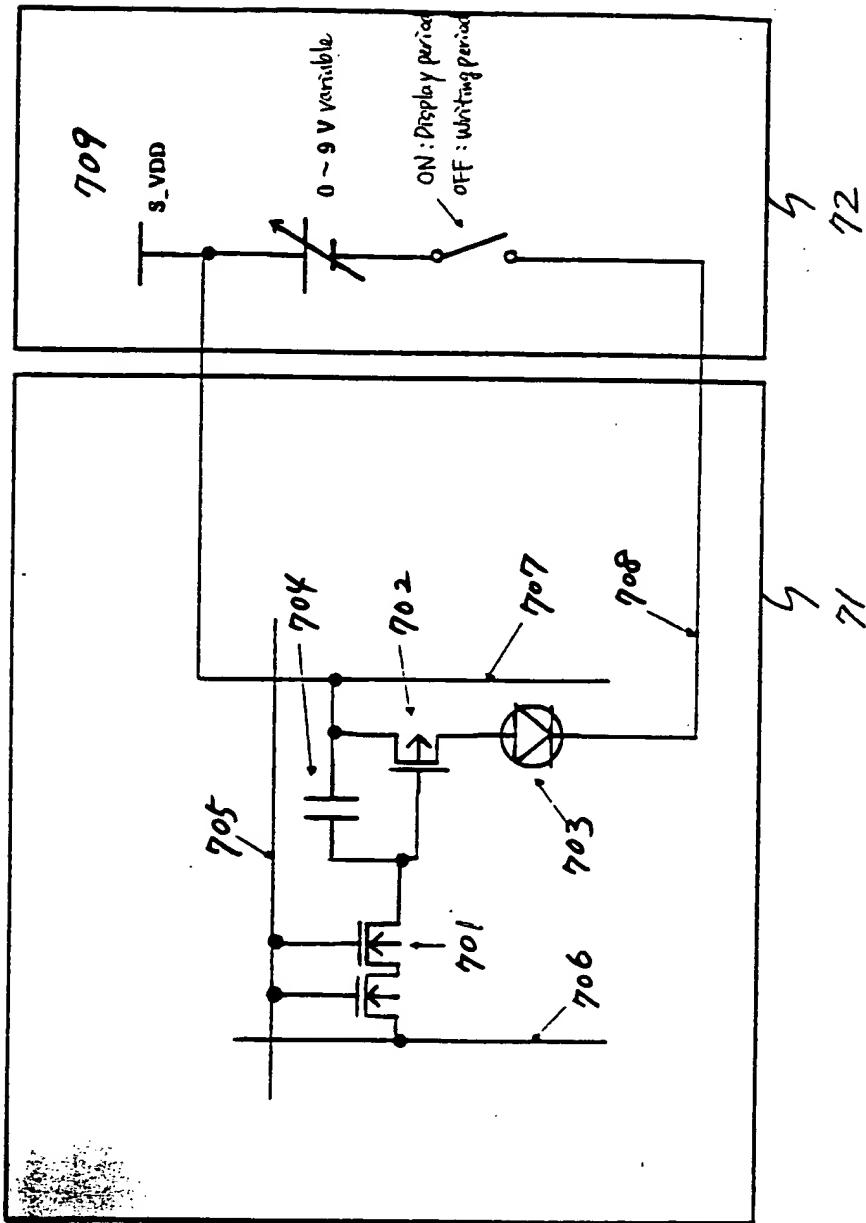


Fig. 8

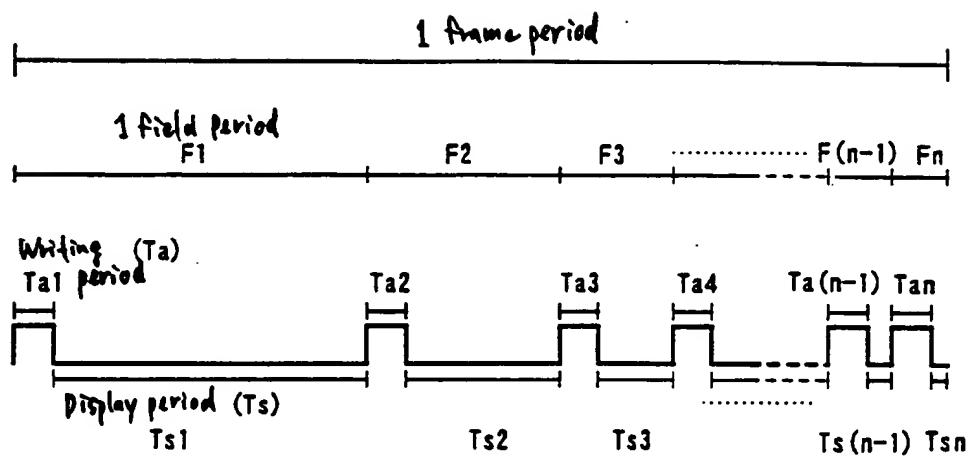
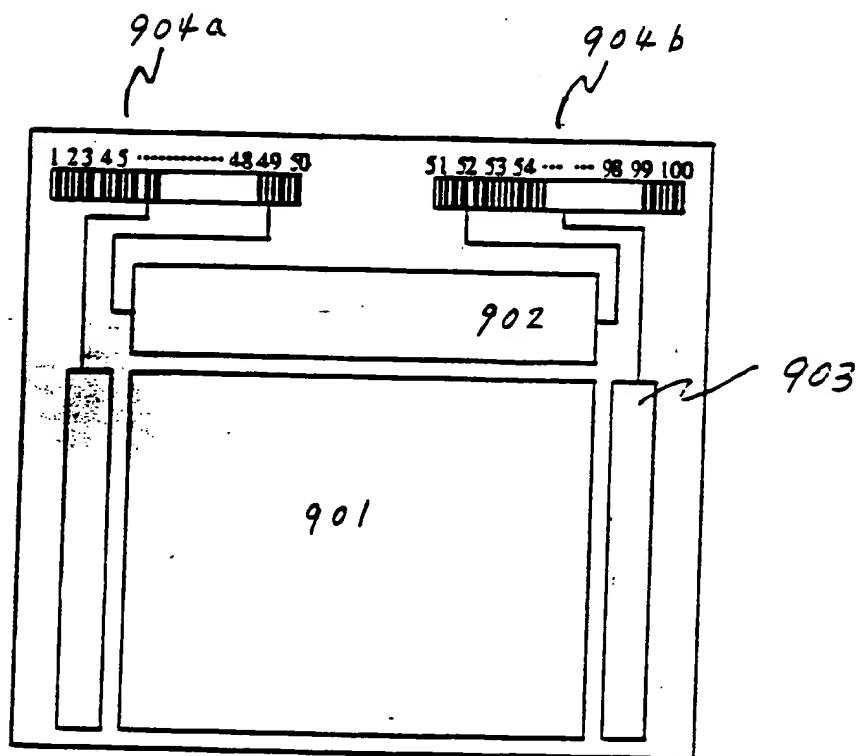


Fig. 9



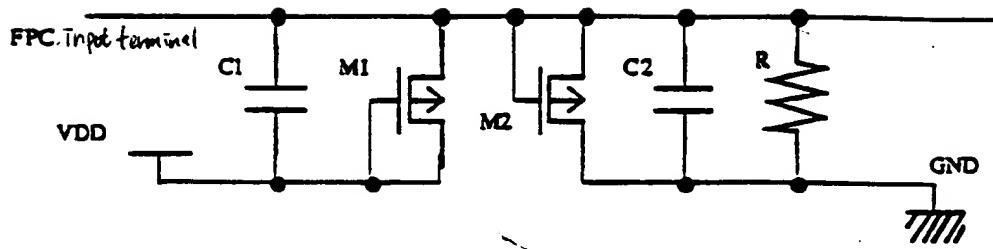
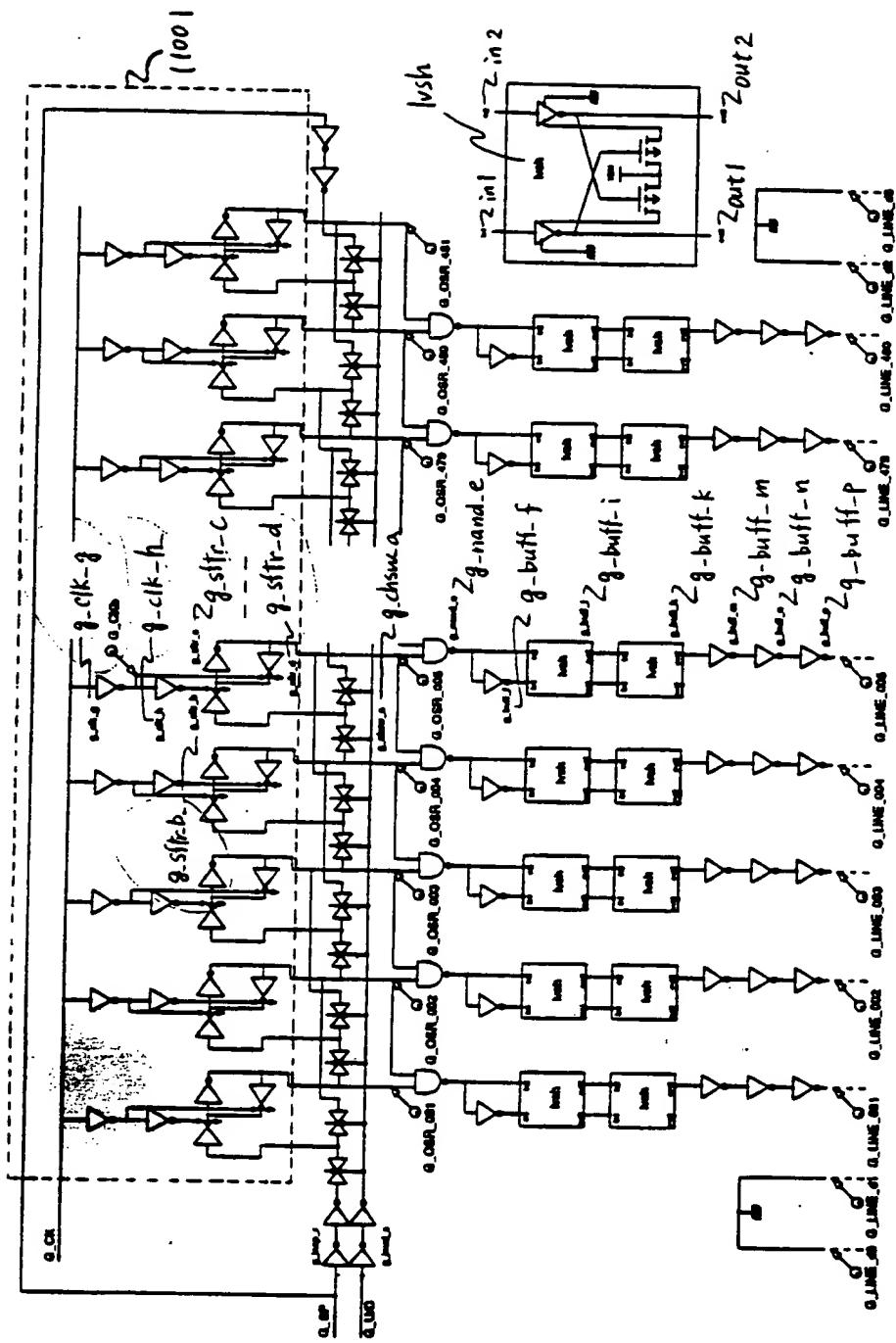


Fig. 10



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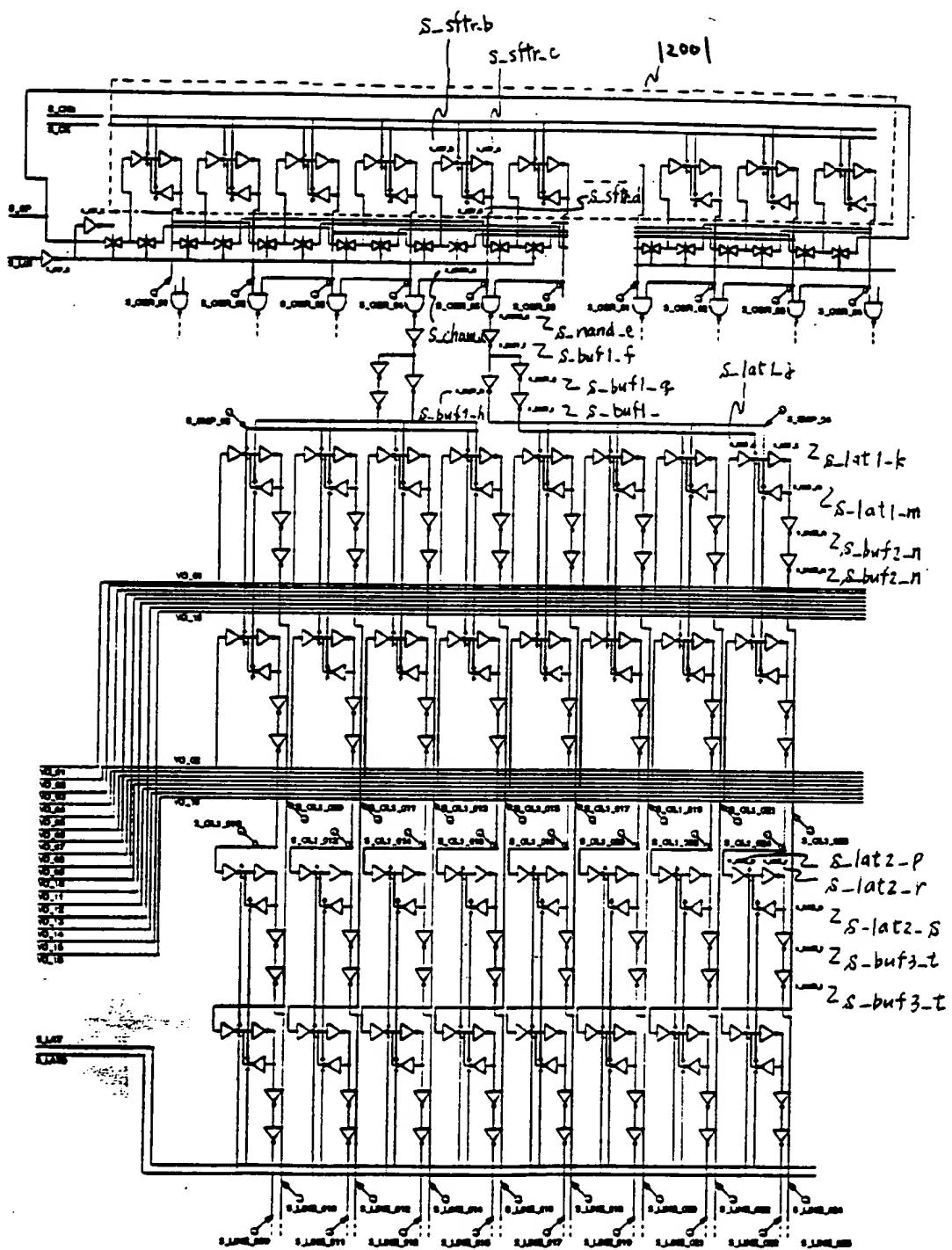


Fig. 12

Fig. 13A

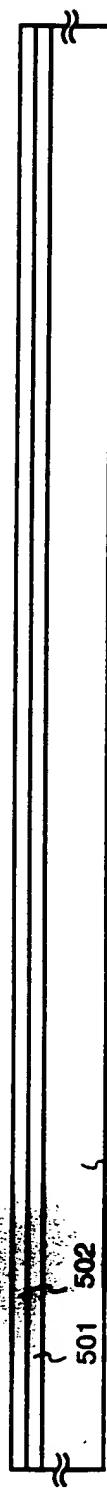


Fig. 13B



Fig. 13C

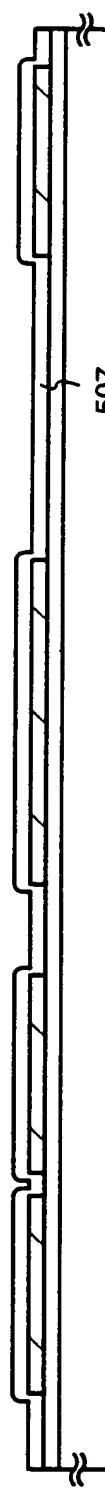


Fig. 13D

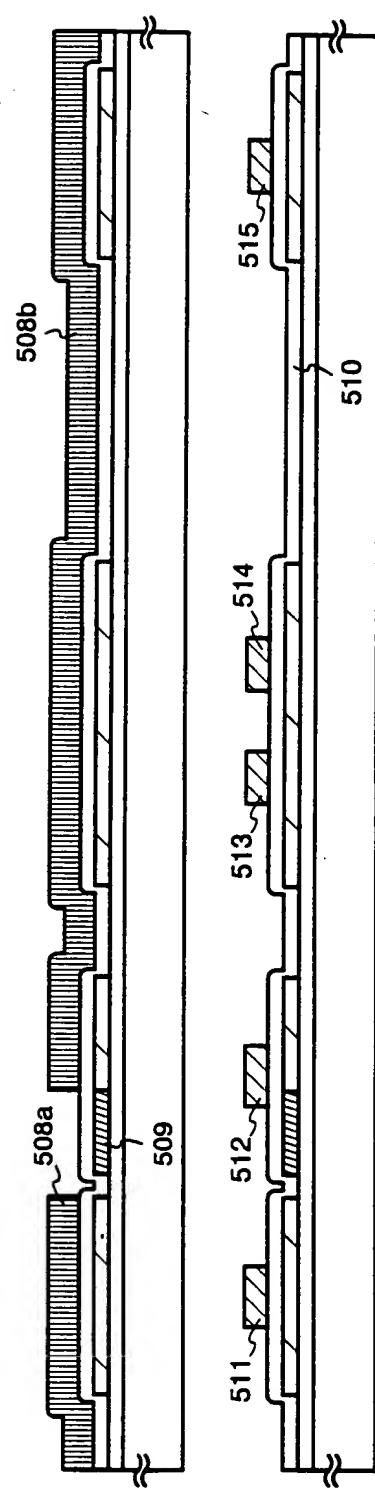


Fig. 13E

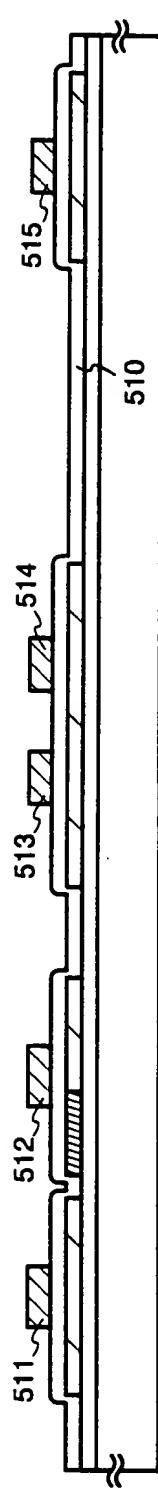


Fig. 14A

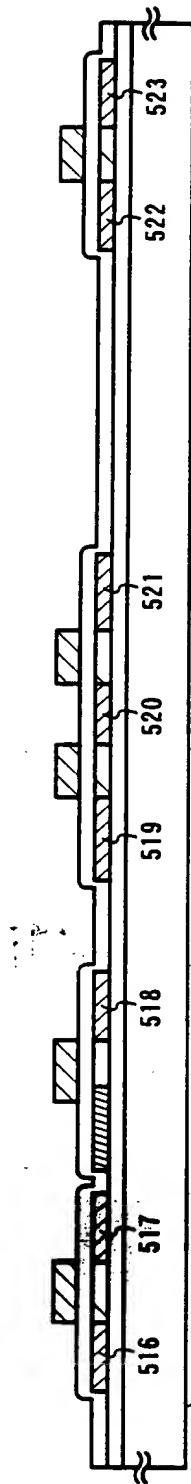


Fig. 14B

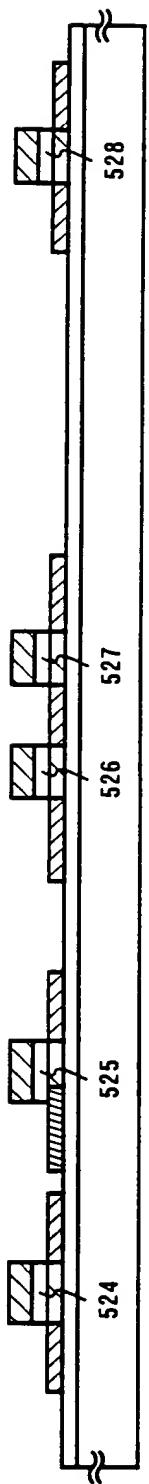


Fig. 14C

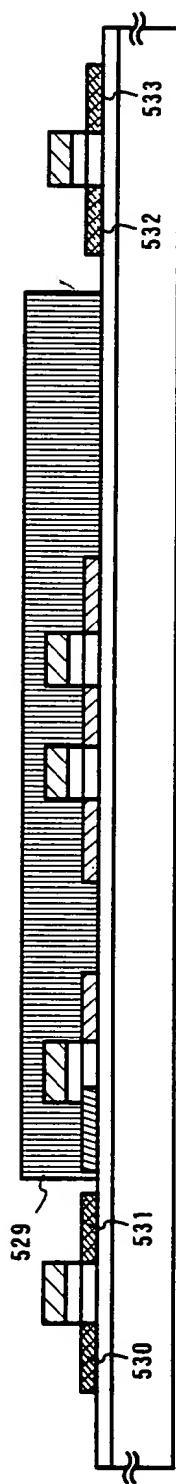


Fig. 14D

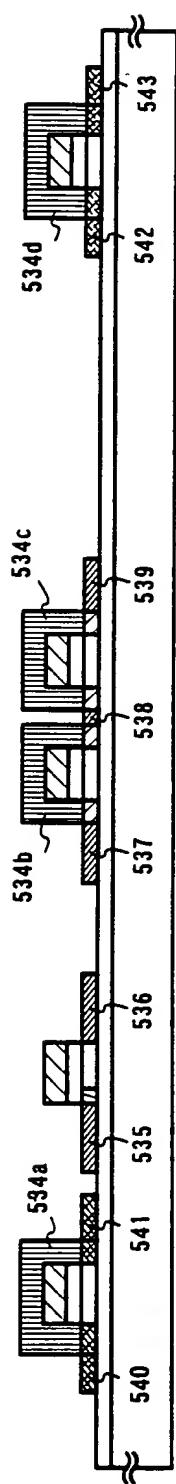
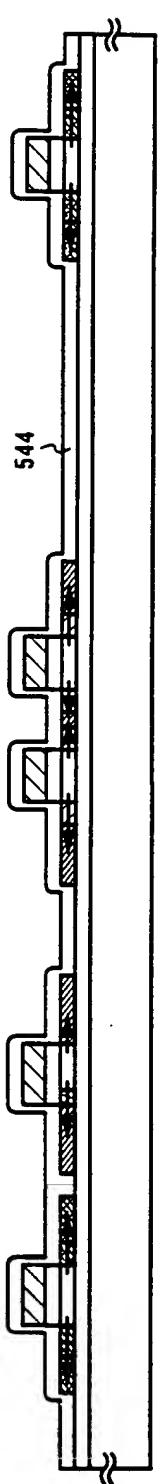


Fig. 14E



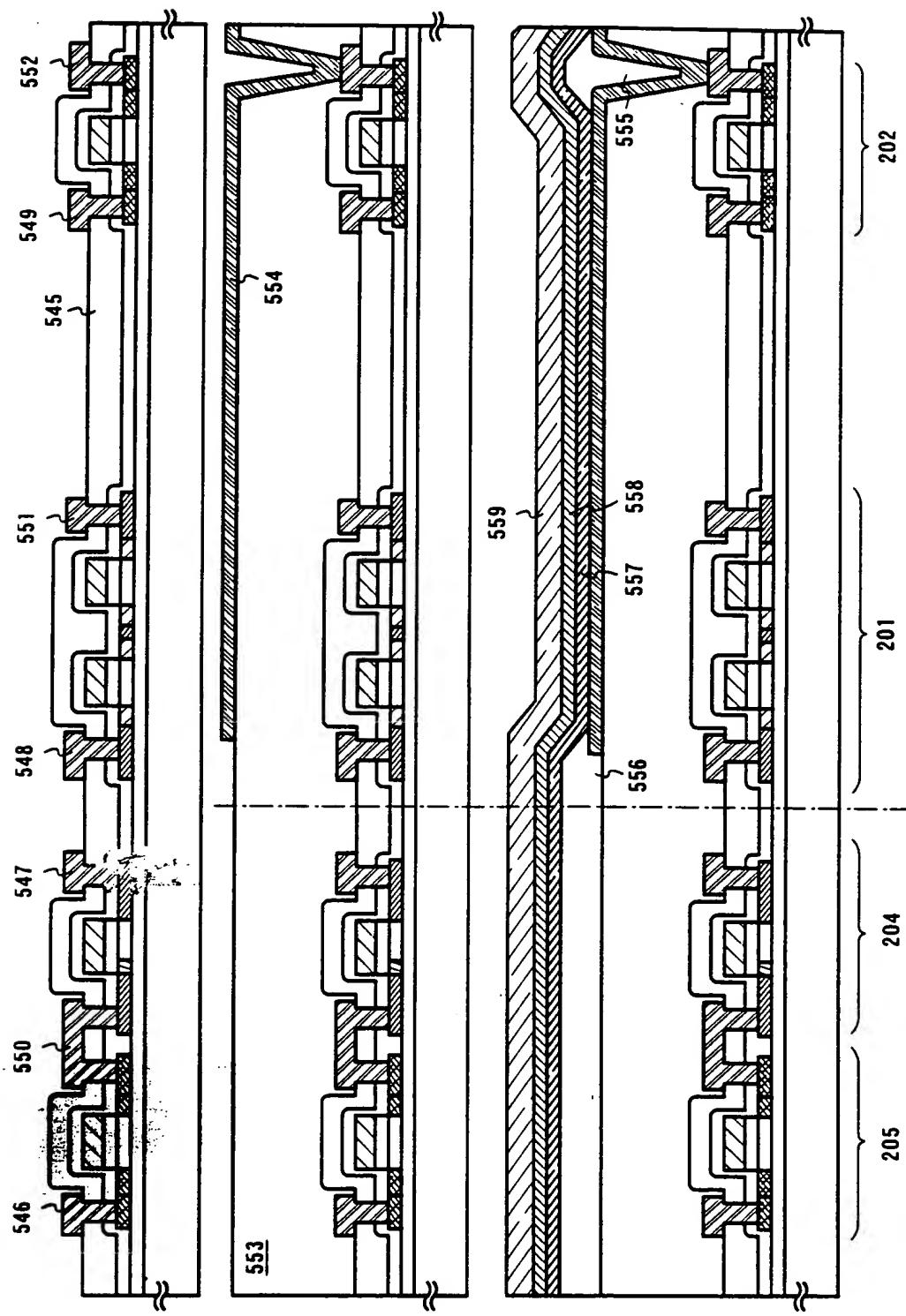


Fig. 15A

Fig. 15B

Fig. 15C

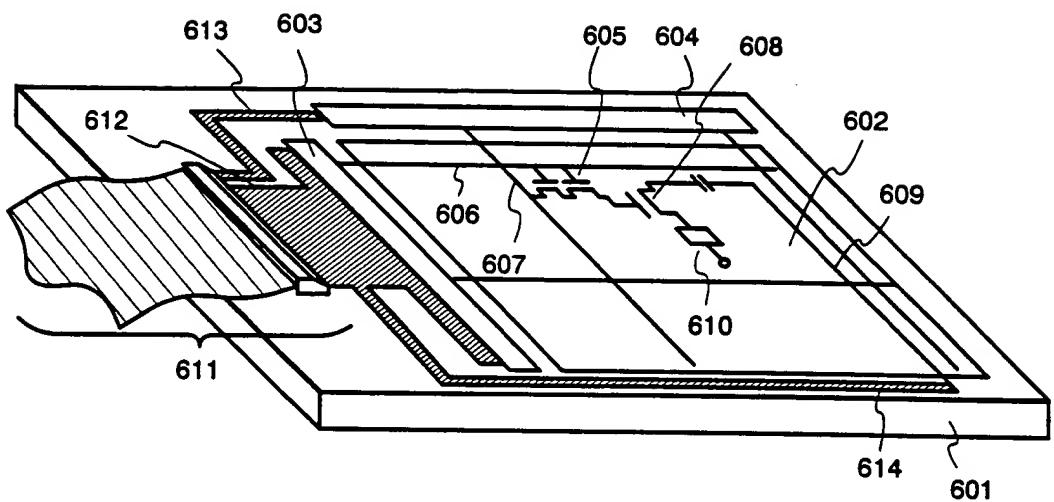


Fig. 16

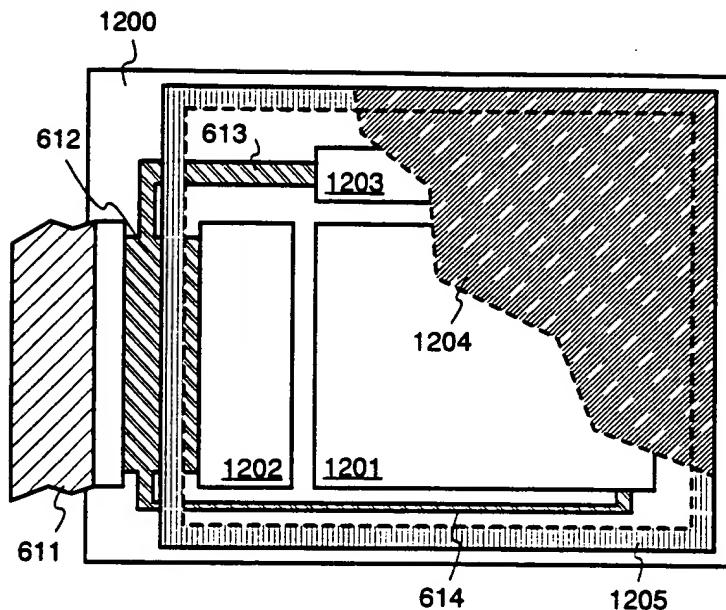


Fig. 17A

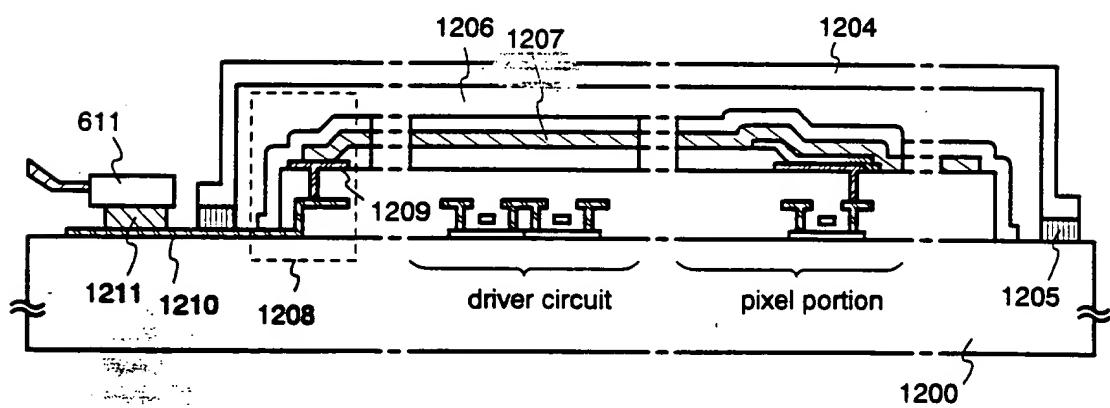


Fig. 17B

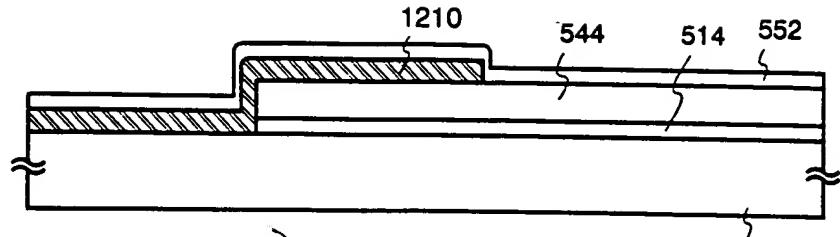


Fig. 18A

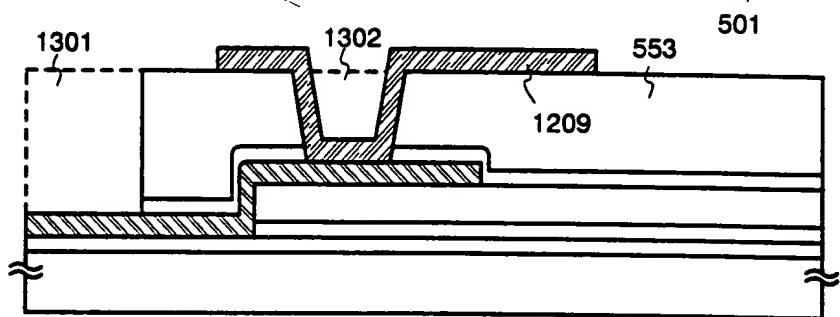


Fig. 18B

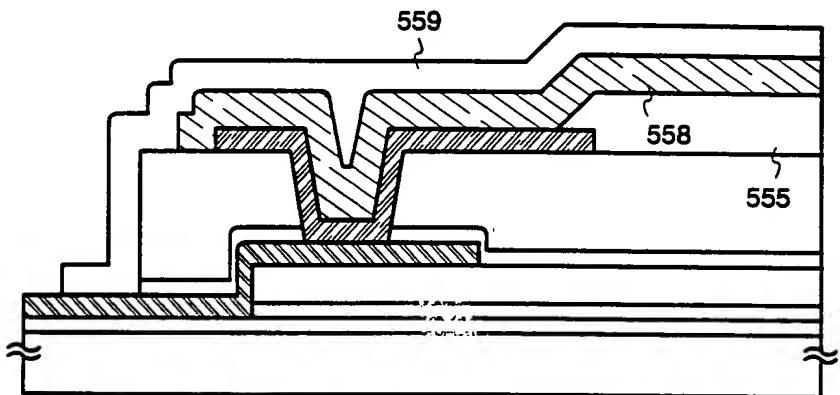


Fig. 18C

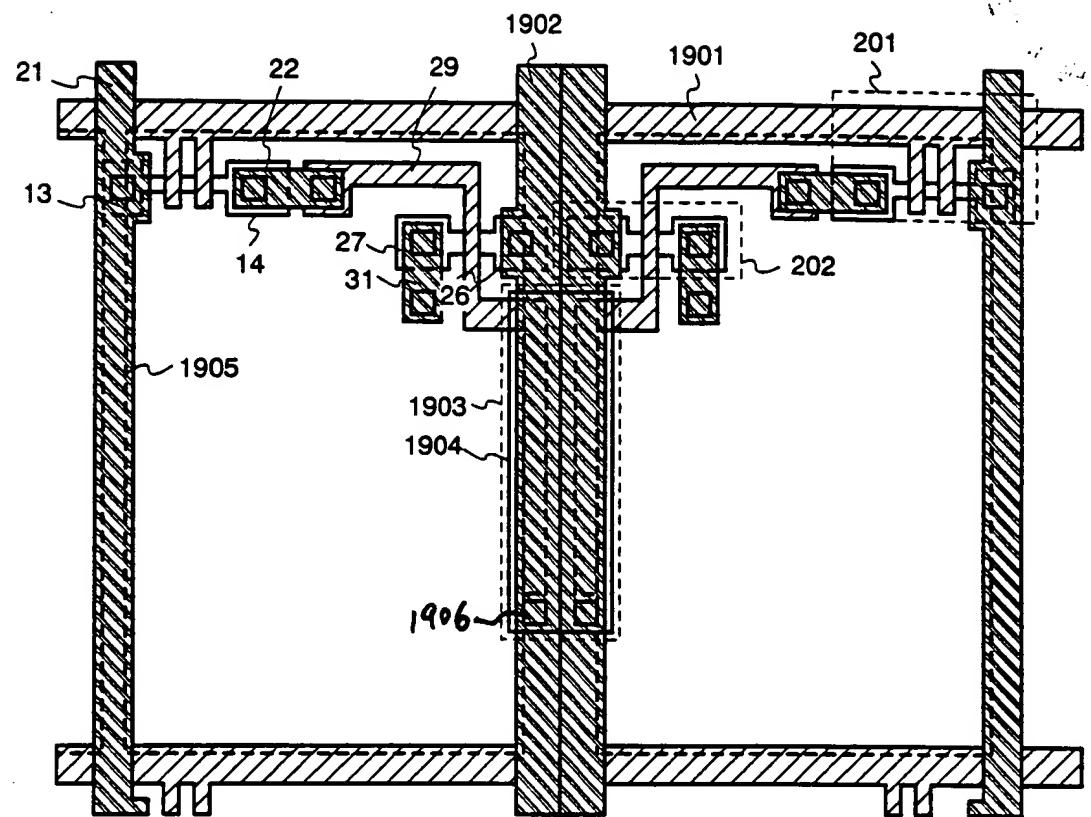


Fig. 19A

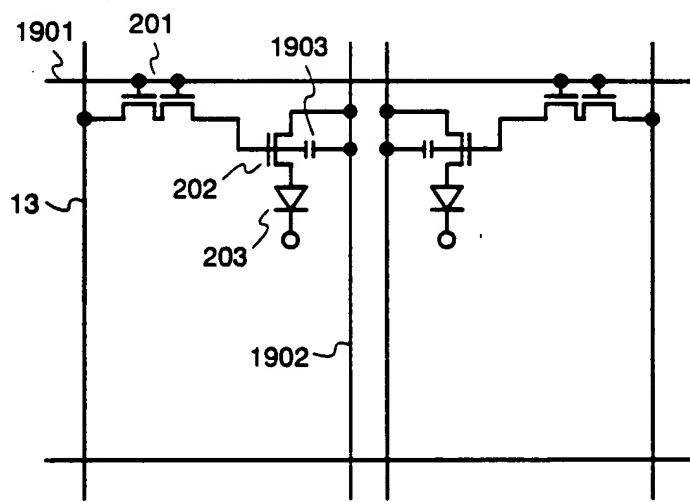


Fig. 19B

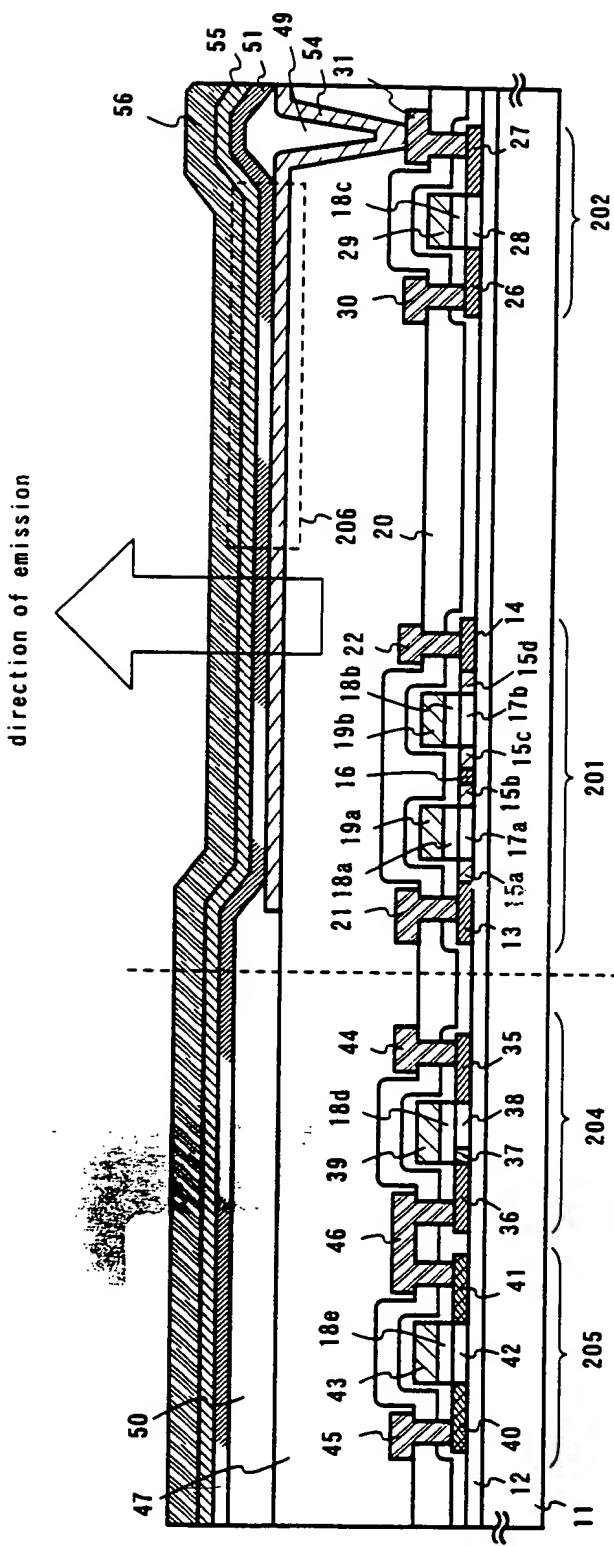
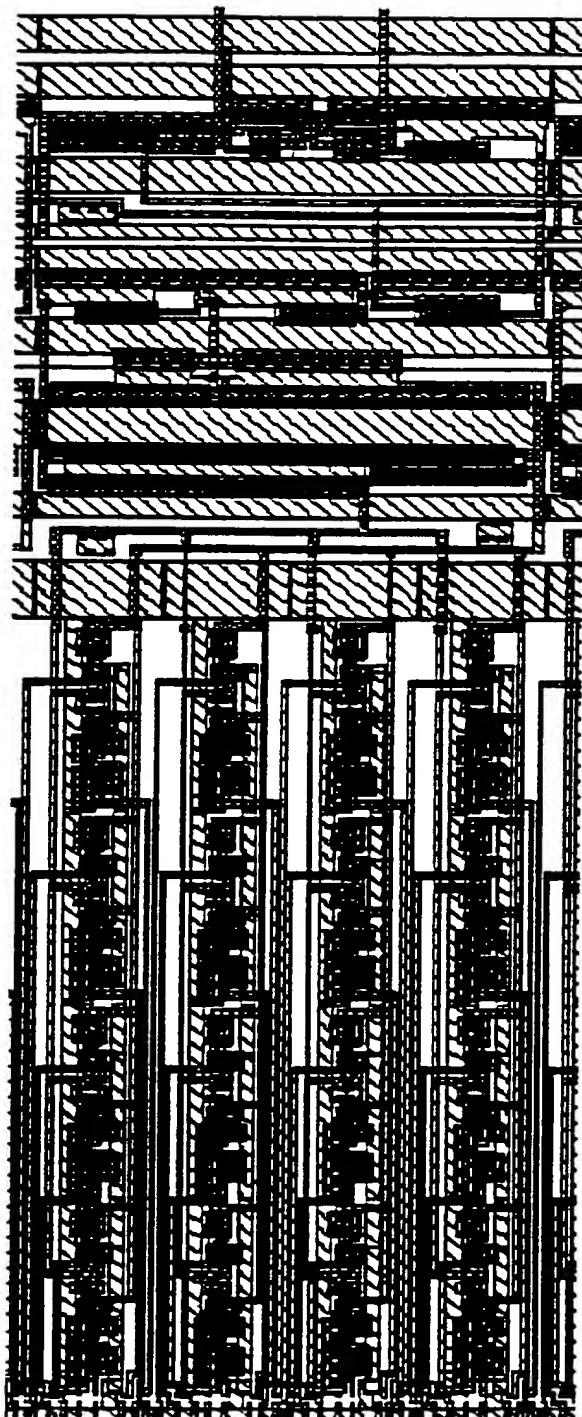


Fig. 20



shift register
(2601)

latch 1
(2602)

Fig. 21

Fig. 22A

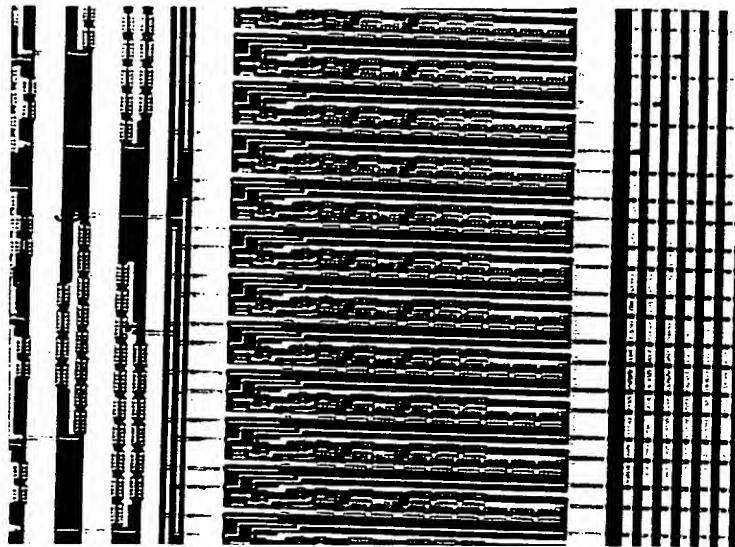
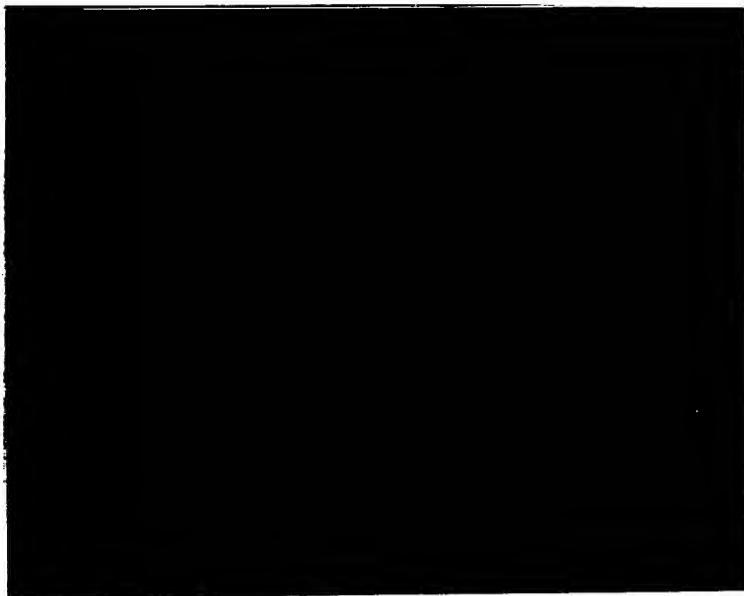


Fig. 22B



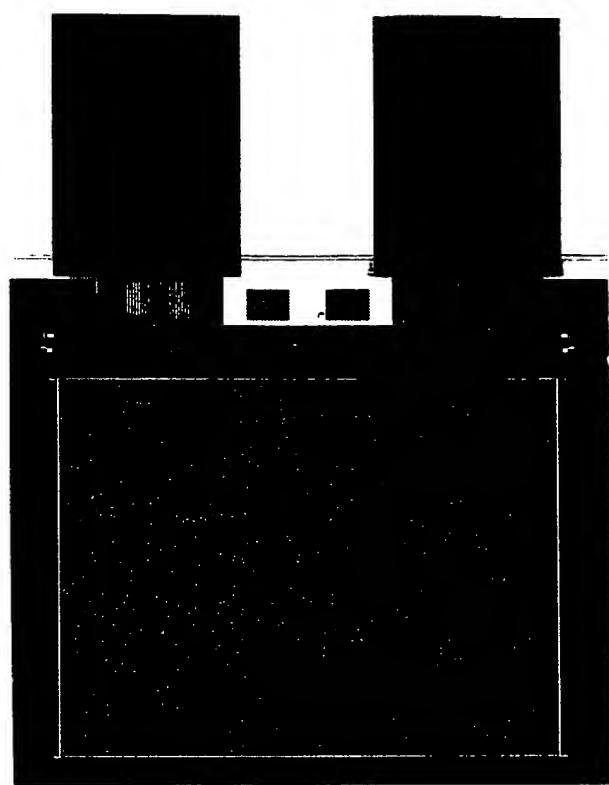
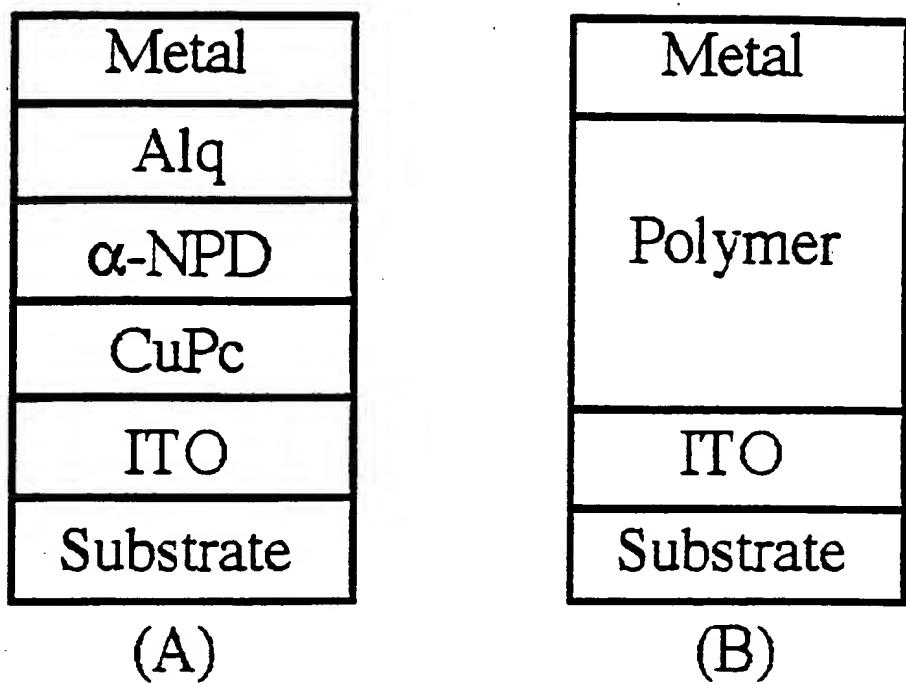
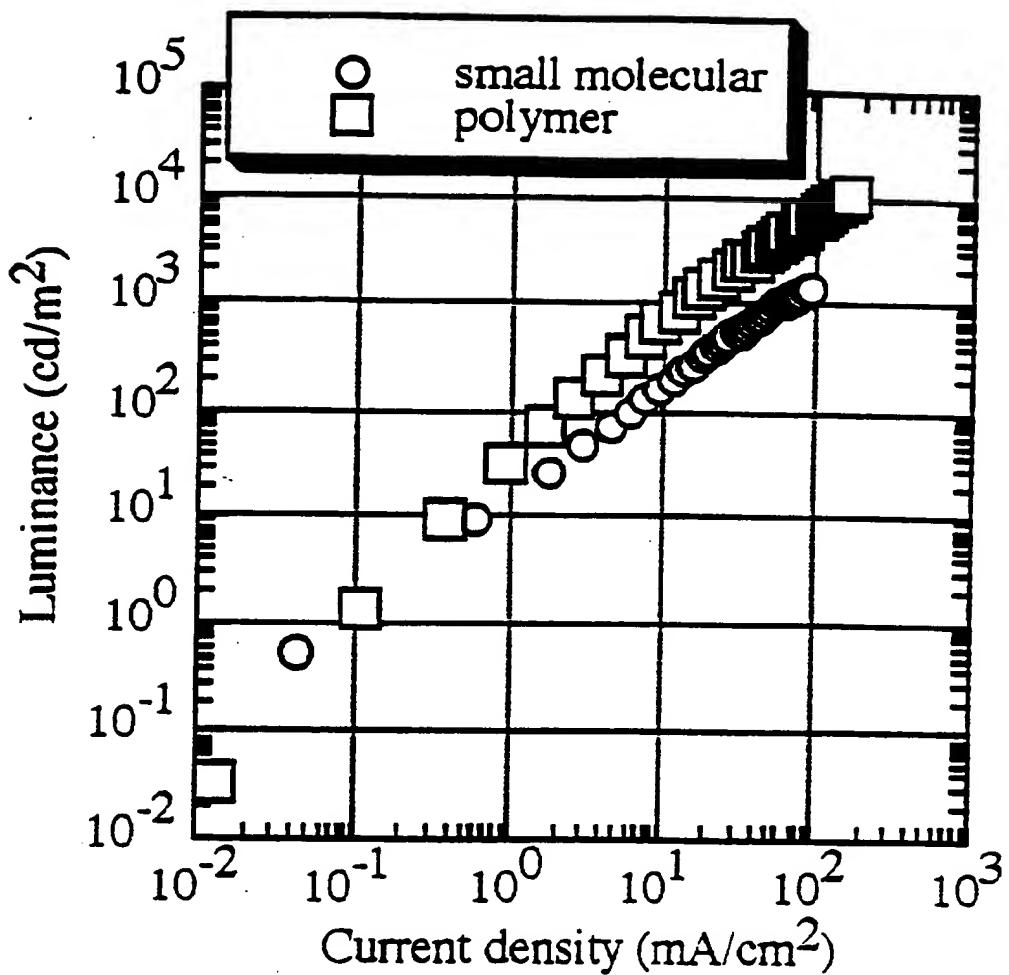


Fig. 23



Structures of OLED

Fig. 24



*L-J characteristics for small
molecular(open circle) and polymer(open square)*

Fig. 25

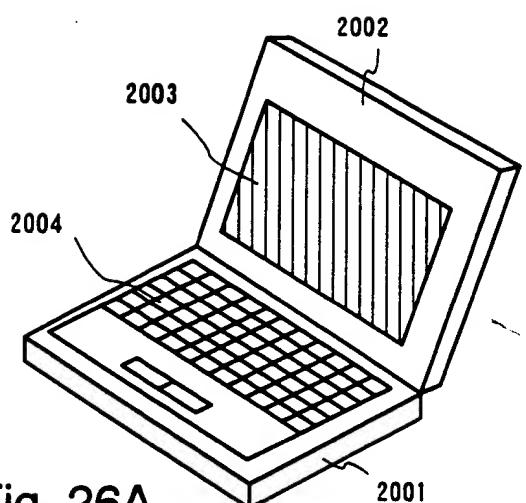


Fig. 26A

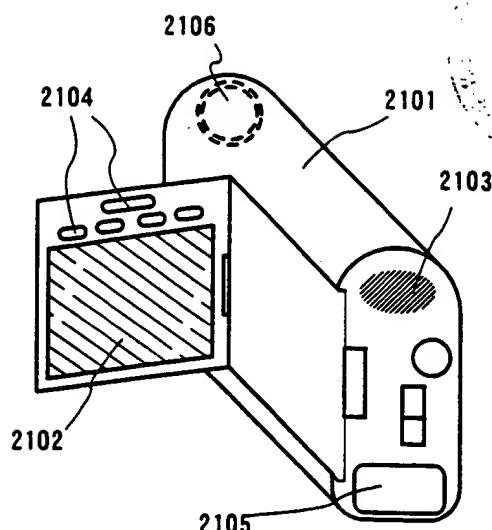


Fig. 26B

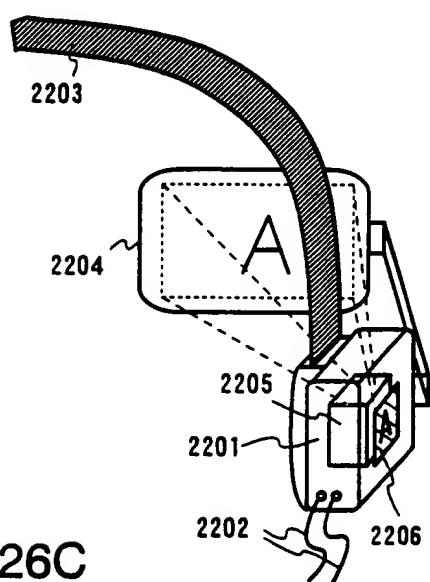


Fig. 26C

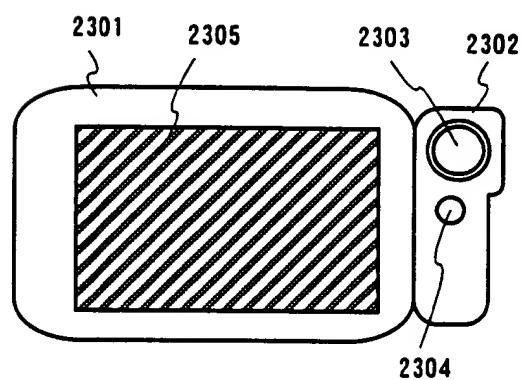


Fig. 26D

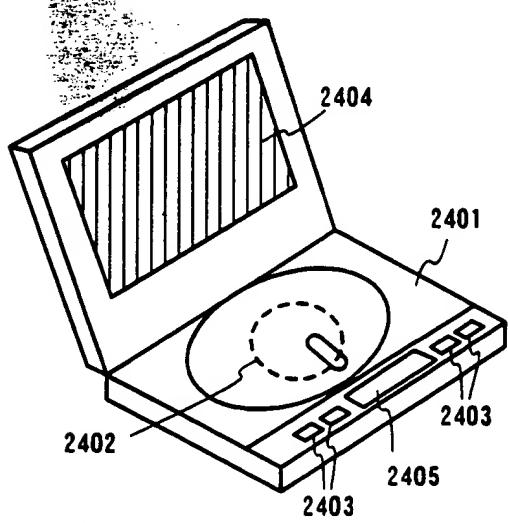


Fig. 26E

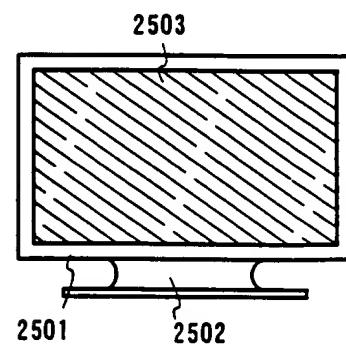


Fig. 26F

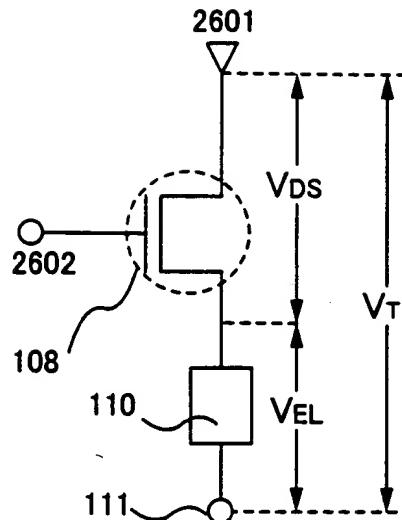


Fig. 27A

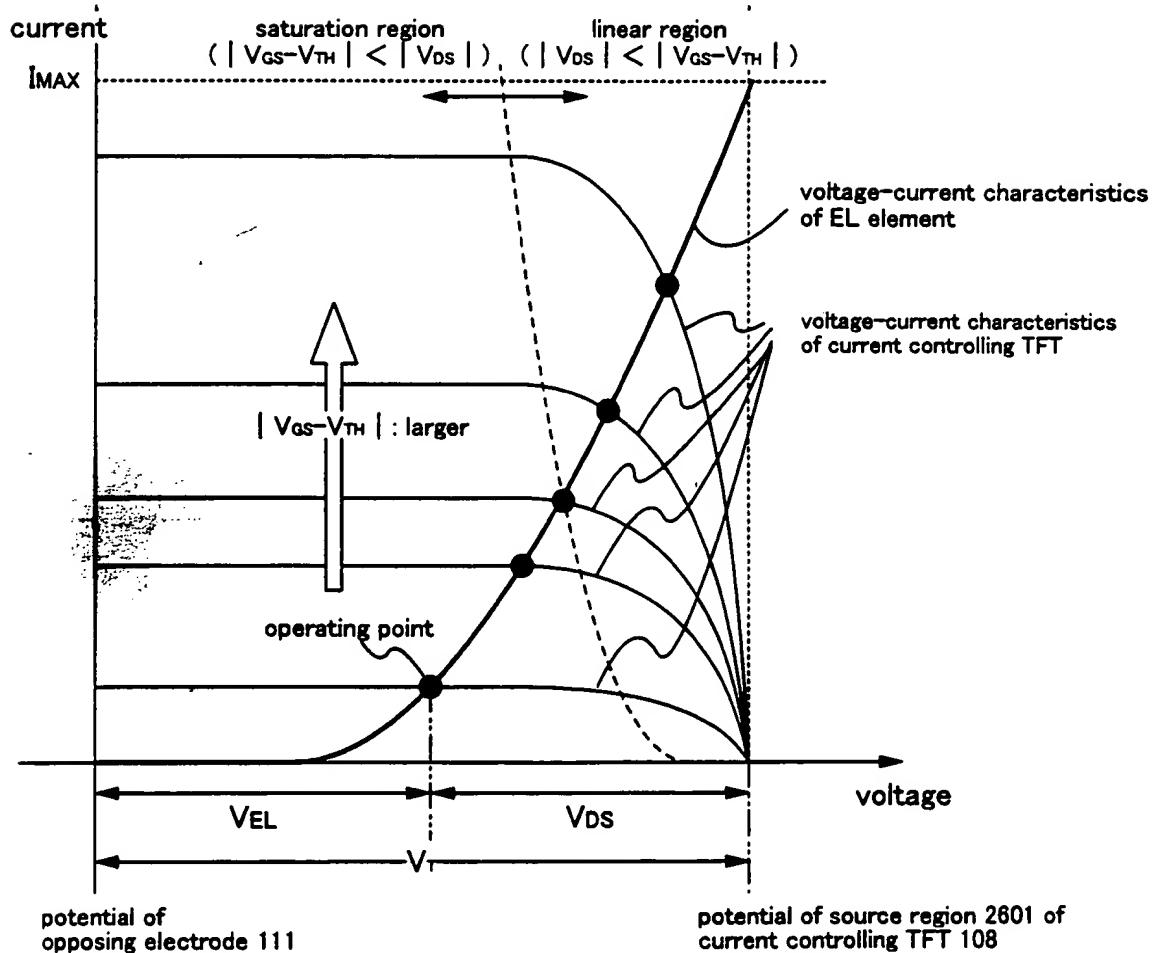


Fig. 27B

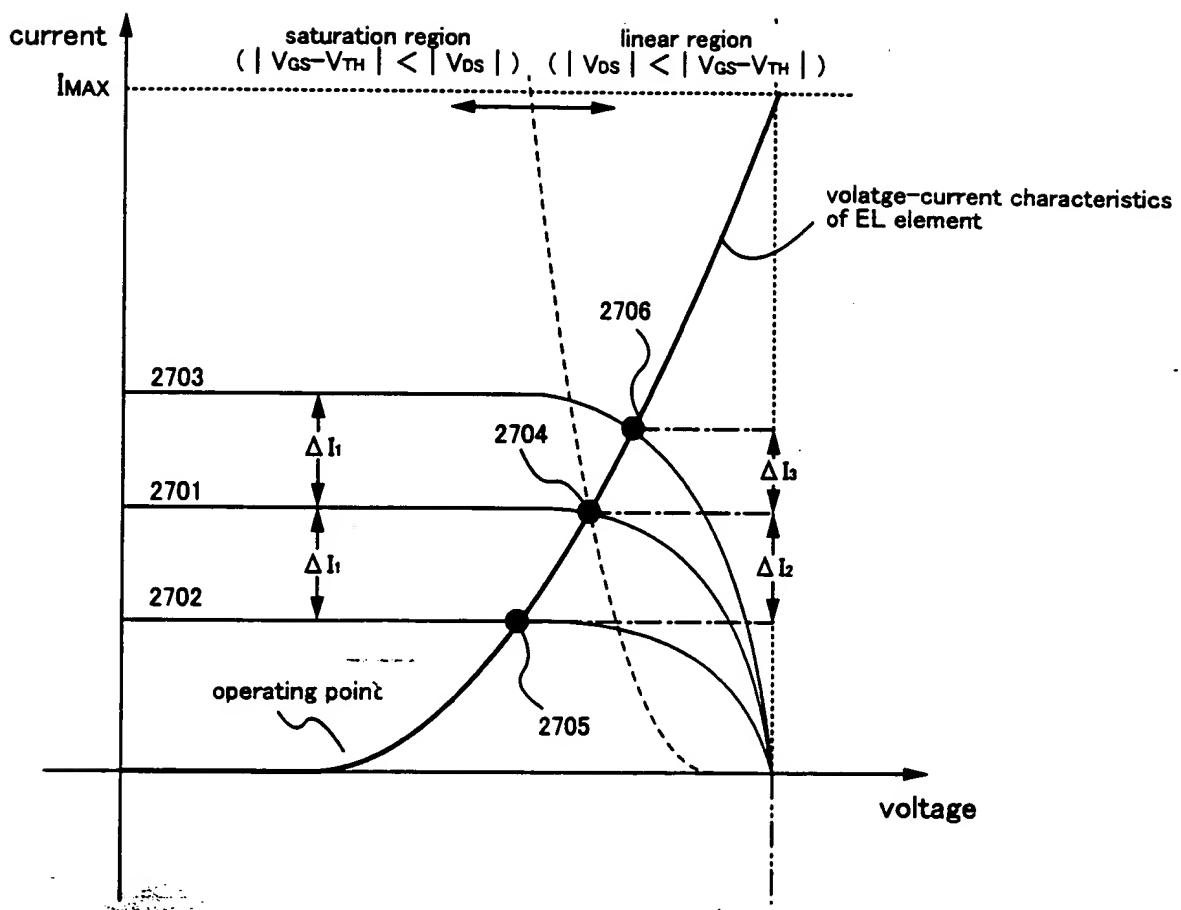


Fig. 28

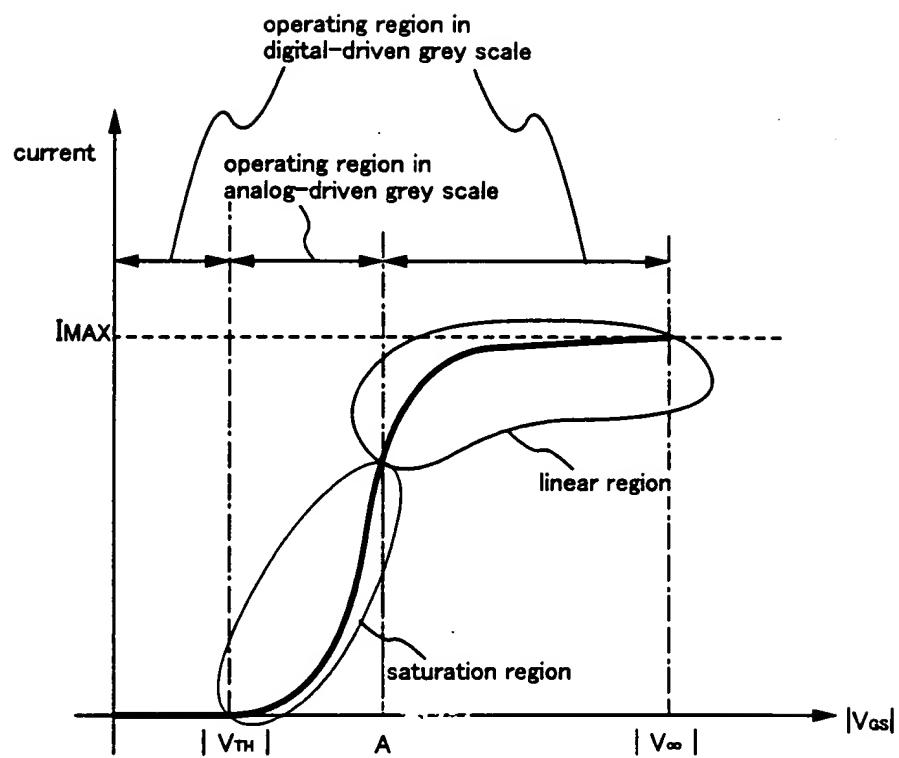


Fig. 29